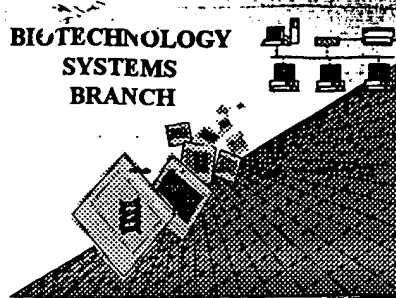
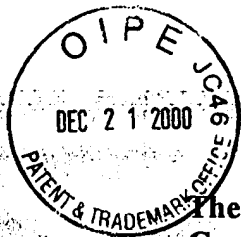


BIO TECHNOLOGY
SYSTEMS
BRANCH



0288
0360
#5
mm2

RAW SEQUENCE LISTING
ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/727,769

Source: OIPE

Date Processed by STIC: 12/18/2000

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OIPE/JCWS

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>



#5
lms
OIPE 3/2/01

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/727,769

DATE: 12/18/2000
TIME: 14:07:58

Input Set : A:\ES.txt
Output Set: N:\CRF3\12182000\I727769.raw

Does Not Comply
Corrected Diskette Needed

pr 1-2,5

OK

3 <110> APPLICANT: Yamaguchi, Shotaro
5 <120> TITLE OF INVENTION: NOVEL PROTEIN-DEAMIDATING ENZYME, MICROORGANISM PRODUCING THE SAME, GENE
6 ENCODING THE SAME, PRODUCTION PROCESS THEREFOR, AND USE THEREOF
8 <130> FILE REFERENCE: A20-128923C
10 <140> CURRENT APPLICATION NUMBER: US/09/727,769
10 <141> CURRENT FILING DATE: 2000-12-04
10 <150> PRIOR APPLICATION NUMBER: JP Hei. 11-345044
11 <151> PRIOR FILING DATE: 1999-12-03
13 <160> NUMBER OF SEQ ID NOS: 11
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 20
19 <212> TYPE: PRT
20 <213> ORGANISM: Cryseobacterium sp. No. 9670
22 <400> SEQUENCE: 1
24 Leu Ala Ser Val Ile Pro Asp Val Ala Thr Leu Asn Ser Leu Phe Asn
25 1 5 10 15
27 Gln Ile Lys Asn
28 20
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 20
32 <212> TYPE: PRT
33 <213> ORGANISM: Cryseobacterium sp. No. 9670
35 <400> SEQUENCE: 2
37 Ser Pro Ser Asn Ser Tyr Leu Tyr Asp Asn Asn Leu Ile Asn Thr Asn
38 1 5 10 15
40 Cys Val Leu Thr
41 20
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 20
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial/Unknown
48 <220> FEATURE:
49 <221> NAME/KEY: modified_base
50 <222> LOCATION: (3)..(3)
51 <223> OTHER INFORMATION: i
54 <220> FEATURE:
55 <221> NAME/KEY: modified_base
56 <222> LOCATION: (6)..(6)
57 <223> OTHER INFORMATION: i
60 <220> FEATURE:
61 <221> NAME/KEY: modified_base
62 <222> LOCATION: (9)..(9)
63 <223> OTHER INFORMATION: i
66 <220> FEATURE:
67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: (15)..(15)

Per 1.823 of new Sequence Rules, <2137
response is either Unknown or
Artificial Sequence or scientific name
(Genus/species)

(one of the three)

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/727,769

DATE: 12/18/2000
 TIME: 14:07:58

Input Set : A:\ES.txt
 Output Set: N:\CRF3\12182000\I727769.raw

69 <223> OTHER INFORMATION: n = G, A, T or C
 72 <220> FEATURE:
 73 <221> NAME/KEY: misc_feature
 74 <222> LOCATION: (1)..(20)
 75 <223> OTHER INFORMATION: Synthetic DNA
 78 <400> SEQUENCE: 3
 79 gchwengtna thecngaygt 20
 82 <210> SEQ ID NO: 4
 83 <211> LENGTH: 20
 84 <212> TYPE: DNA
 85 <213> ORGANISM: Artificial/Unknown
 87 <220> FEATURE:
 88 <221> NAME/KEY: misc_feature
 89 <222> LOCATION: (3)..(3)
 90 <223> OTHER INFORMATION: n = G, A, T or C
 93 <220> FEATURE:
 94 <221> NAME/KEY: misc_feature
 95 <222> LOCATION: (1)..(20)
 96 <223> OTHER INFORMATION: Synthetic DNA
 99 <220> FEATURE:
 100 <221> NAME/KEY: misc_feature
 101 <222> LOCATION: (12)..(12)
 102 <223> OTHER INFORMATION: n = G, A, T or C
 105 <400> SEQUENCE: 4
 106 arnacrcart tngtrttat 20
 109 <210> SEQ ID NO: 5
 110 <211> LENGTH: 555
 111 <212> TYPE: DNA
 112 <213> ORGANISM: Cryseobacterium sp. No. 9670
 114 <400> SEQUENCE: 5
 115 ttggcgagtg taattcctga ttagctaca ttaaattctt tattcaatca aataaagaat 60
 117 cagtcttgcg gtacctctac ggcgtcctca ccatgcatca cattcagata tcctgtagac 120
 119 ggaatgttatg caagagccca taagatgaga caaatcttaa tgaacaacgg ctatgactgt 180
 121 gaaaaacaat ttgtatacgg aaacctaaag gcatcaacag gaacttgctg tgtggcgtgg 240
 123 agctaccacg ttgcaatatt ggtaaagctat aaaaatgctt ccggagtaac ggaaaaaaga 300
 125 attattgato cttcactatt ttcaagcggc cctgtaacag atacagcatg gagaaacgct 360
 127 tgcgttaaca cctcttgagg atctgcatcc gtttctctt atgctaatac tgcaggaaat 420
 129 gtttattaca gaagtcctag taattcttac ctgtatgaca acaatctgat caataccaac 480
 131 tgtgtactga ctaaatcttc actgctttcc ggatgttctc cttaacctgc accggatgta 540
 133 tccagctgtg gattt 555
 136 <210> SEQ ID NO: 6
 137 <211> LENGTH: 185
 138 <212> TYPE: PRT
 139 <213> ORGANISM: Cryseobacterium sp. No. 9670
 141 <400> SEQUENCE: 6
 143 Leu Ala Ser Val Ile Pro Asp Val Ala Thr Leu Asn Ser Leu Phe Asn
 144 1 5 10 15
 146 Gln Ile Lys Asn Gln Ser Cys Gly Thr Ser Thr Ala Ser Ser Pro Cys
 147 20 25 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/727,769

DATE: 12/18/2000

TIME: 14:07:58

Input Set : A:\ES.txt

Output Set: N:\CRF3\12182000\I727769.raw

```

149 Ile Thr Phe Arg Tyr Pro Val Asp Gly Cys Tyr Ala Arg Ala His Lys
150           35           40           45
152 Met Arg Gln Ile Leu Met Asn Asn Gly Tyr Asp Cys Glu Lys Gln Phe
153           50           55           60
155 Val Tyr Gly Asn Leu Lys Ala Ser Thr Gly Thr Cys Cys Val Ala Trp
156           65           70           75           80
158 Ser Tyr His Val Ala Ile Leu Val Ser Tyr Lys Asn Ala Ser Gly Val
159           85           90           95
161 Thr Glu Lys Arg Ile Ile Asp Pro Ser Leu Phe Ser Ser Gly Pro Val
162           100          105          110
164 Thr Asp Thr Ala Trp Arg Asn Ala Cys Val Asn Thr Ser Cys Gly Ser
165           115          120          125
167 Ala Ser Val Ser Ser Tyr Ala Asn Thr Ala Gly Asn Val Tyr Tyr Arg
168           130          135          140
170 Ser Pro Ser Asn Ser Tyr Leu Tyr Asp Asn Asn Leu Ile Asn Thr Asn
171           145          150          155          160
173 Cys Val Leu Thr Lys Phe Ser Leu Leu Ser Gly Cys Ser Pro Ser Pro
174           165          170          175
176 Ala Pro Asp Val Ser Ser Cys Gly Phe
177           180          185
179 <210> SEQ ID NO: 7
180 <211> LENGTH: 1080
181 <212> TYPE: DNA
182 <213> ORGANISM: Cryseobacterium sp. No. 9670
184 <220> FEATURE:
185 <221> NAME/KEY: CDS
186 <222> LOCATION: (61)..(1020)
188 <220> FEATURE:
189 <221> NAME/KEY: mat_peptide
190 <222> LOCATION: (466)..()
192 <400> SEQUENCE: 7
193 agttaaata accaaccaac ttaacaaaaa ctaccatta aactacaaat tacaattatt      60
195 atg aaa aat ctt ttt tta tca atg atg gcc ttt gtg acc gtc tta      105
196 Met Lys Asn Leu Phe Leu Ser Met Met Ala Phe Val Thr Val Leu
197 -135 -130 -125
199 act ttt aat tcc tgt gcc gat tcc aac ggg aat cag gaa atc aac      150
200 Thr Phe Asn Ser Cys Ala Asp Ser Asn Gly Asn Gln Glu Ile Asn
201 -120 -115 -110
203 gga aag gaa aaa cta agt gta aat gat tct aag ctg aaa gat ttc gga      198
204 Gly Lys Glu Lys Leu Ser Val Asn Asp Ser Lys Leu Lys Asp Phe Gly
205 -105 -100 -95 -90
207 aag act gta ccg gta ggg ata gac gaa gaa aac gga atg ata aag gtg      246
208 Lys Thr Val Pro Val Gly Ile Asp Glu Glu Asn Gly Met Ile Lys Val
209 -85 -80 -75
211 tca ttt atg tta act gcg caa ttc tat gaa att aag ccg acc aaa gaa      294
212 Ser Phe Met Leu Thr Ala Gln Phe Tyr Glu Ile Lys Pro Thr Lys Glu
213 -70 -65 -60
215 aat gag cag tat atc gga atg ctt aga cag gct gtt aag aat gaa tct      342
216 Asn Glu Gln Tyr Ile Gly Met Leu Arg Gln Ala Val Lys Asn Glu Ser

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/727,769

DATE: 12/18/2000

TIME: 14:07:58

Input Set : A:\ES.txt

Output Set: N:\CRF3\12182000\I727769.raw

```

217          -55          -50          -45
219 cct gta cac att ttc tta aag cct aat agc aat gaa ata gga aaa gtg      390
220 Pro Val His Ile Phe Leu Lys Pro Asn Ser Asn Glu Ile Gly Lys Val
221          -40          -35          -30
223 gag tct gca agt ccg gaa gac gta aga tat ttt aaa acg atc ctg aca      438
224 Glu Ser Ala Ser Pro Glu Asp Val Arg Tyr Phe Lys Thr Ile Leu Thr
225 -25          -20          -15          -10
227 aaa gaa gta aaa ggg caa acc aat aaa ttg gcg agt gta att cct gat      486
228 Lys Glu Val Lys Gly Gln Thr Asn Lys Leu Ala Ser Val Ile Pro Asp
229          -5          -1 1          5
231 gta gct aca tta aat tct tta ttc aat caa ata aag aat cag tct tgc      534
232 Val Ala Thr Leu Asn Ser Leu Phe Asn Gln Ile Lys Asn Gln Ser Cys
233          10          15          20
235 ggt acc tct acg gcg tcc tca cca tgc atc aca ttc aga tat cct gta      582
236 Gly Thr Ser Thr Ala Ser Ser Pro Cys Ile Thr Phe Arg Tyr Pro Val
237          25          30          35
239 gac gga tgt tat gca aga gcc cat aag atg aga caa atc tta atg aac      630
240 Asp Gly Cys Tyr Ala Arg Ala His Lys Met Arg Gln Ile Leu Met Asn
241 40          45          50          55
243 aac ggc tat gac tgt gaa aaa caa ttt gta tac gga aac cta aag gca      678
244 Asn Gly Tyr Asp Cys Glu Lys Gln Phe Val Tyr Gly Asn Leu Lys Ala
245          60          65          70
247 tca aca gga act tgc tgt gtg gcg tgg agc tac cac gtt gca ata ttg      726
248 Ser Thr Gly Thr Cys Cys Val Ala Trp Ser Tyr His Val Ala Ile Leu
249          75          80          85
251 gta agc tat aaa aat gct tcc gga gta acg gaa aaa aga att att gat      774
252 Val Ser Tyr Lys Asn Ala Ser Gly Val Thr Glu Lys Arg Ile Ile Asp
253          90          95          100
255 cct tca cta ttt tca agc ggt cct gta aca gat aca gca tgg aga aac      822
256 Pro Ser Leu Phe Ser Ser Gly Pro Val Thr Asp Thr Ala Trp Arg Asn
257          105          110          115
259 gct tgc gtt aac acc tct tgc gga tct gca tcc gtt tcc tct tat gct      870
260 Ala Cys Val Asn Thr Ser Cys Gly Ser Ala Ser Val Ser Ser Tyr Ala
261 120          125          130          135
263 aat act gca gga aat gtt tat tac aga agt cct agt aat tct tac ctg      918
264 Asn Thr Ala Gly Asn Val Tyr Tyr Arg Ser Pro Ser Asn Ser Tyr Leu
265          140          145          150
267 tat gac aac aat ctg atc aat acc aac tgt gta ctg act aaa ttt tca      966
268 Tyr Asp Asn Asn Leu Ile Asn Thr Asn Cys Val Leu Thr Lys Phe Ser
269          155          160          165
271 ctg ctt tcc gga tgt tct cct tca cct gca ccg gat gta tcc agc tgt      1014
272 Leu Leu Ser Gly Cys Ser Pro Ser Pro Ala Pro Asp Val Ser Ser Cys
273          170          175          180
275 gga ttt taaktaattg ataattttac agcacctgct catttacaga atcagcaggt      1070
276 Gly Phe
277          185
279 gctgttatat      1080
282 <210> SEQ ID NO: 8
283 <211> LENGTH: 320

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/727,769

DATE: 12/18/2000

TIME: 14:07:58

Input Set : A:\ES.txt

Output Set: N:\CRF3\12182000\I727769.raw

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284 <212> TYPE: PRT
285 <213> ORGANISM: Cryseobacterium sp. No. 9670
287 <400> SEQUENCE: 8
289 Met Lys Asn Leu Phe Leu Ser Met Met Ala Phe Val Thr Val Leu
290 -135 -130 -125
293 Thr Phe Asn Ser Cys Ala Asp Ser Asn Gly Asn Gln Glu Ile Asn
294 -120 -115 -110
297 Gly Lys Glu Lys Leu Ser Val Asn Asp Ser Lys Leu Lys Asp Phe Gly
298 -105 -100 -95 -90
301 Lys Thr Val Pro Val Gly Ile Asp Glu Glu Asn Gly Met Ile Lys Val
302 -85 -80 -75
305 Ser Phe Met Leu Thr Ala Gln Phe Tyr Glu Ile Lys Pro Thr Lys Glu
306 -70 -65 -60
309 Asn Glu Gln Tyr Ile Gly Met Leu Arg Gln Ala Val Lys Asn Glu Ser
310 -55 -50 -45
313 Pro Val His Ile Phe Leu Lys Pro Asn Ser Asn Glu Ile Gly Lys Val
314 -40 -35 -30
317 Glu Ser Ala Ser Pro Glu Asp Val Arg Tyr Phe Lys Thr Ile Leu Thr
318 -25 -20 -15 -10
321 Lys Glu Val Lys Gly Gln Thr Asn Lys Leu Ala Ser Val Ile Pro Asp
322 -5 -1 1 5
325 Val Ala Thr Leu Asn Ser Leu Phe Asn Gln Ile Lys Asn Gln Ser Cys
326 10 15 20
329 Gly Thr Ser Thr Ala Ser Ser Pro Cys Ile Thr Phe Arg Tyr Pro Val
330 25 30 35
333 Asp Gly Cys Tyr Ala Arg Ala His Lys Met Arg Gln Ile Leu Met Asn
334 40 45 50 55
337 Asn Gly Tyr Asp Cys Glu Lys Gln Phe Val Tyr Gly Asn Leu Lys Ala
338 60 65 70
341 Ser Thr Gly Thr Cys Cys Val Ala Trp Ser Tyr His Val Ala Ile Leu
342 75 80 85
345 Val Ser Tyr Lys Asn Ala Ser Gly Val Thr Glu Lys Arg Ile Ile Asp
346 90 95 100
349 Pro Ser Leu Phe Ser Ser Gly Pro Val Thr Asp Thr Ala Trp Arg Asn
350 105 110 115
353 Ala Cys Val Asn Thr Ser Cys Gly Ser Ala Ser Val Ser Ser Tyr Ala
354 120 125 130 135
357 Asn Thr Ala Gly Asn Val Tyr Tyr Arg Ser Pro Ser Asn Ser Tyr Leu
358 140 145 150
361 Tyr Asp Asn Asn Leu Ile Asn Thr Asn Cys Val Leu Thr Lys Phe Ser
362 155 160 165
365 Leu Leu Ser Gly Cys Ser Pro Ser Pro Ala Pro Asp Val Ser Ser Cys
366 170 175 180
369 Gly Phe
370 185
373 <210> SEQ ID NO: 9
374 <211> LENGTH: 30
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial/Unknown

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*Please correct this error in
subsequent sequences*

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/727,769

DATE: 12/18/2000

TIME: 14:07:59

Input Set : A:\ES.txt

Output Set: N:\CRF3\12182000\I727769.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4